IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Llewellyn Wall
Application No.	:	09/888,221
Filed	:	June 23, 2001
Title	:	COMPONENT MODELS
Group/Art Unit	:	2176
Examiner	:	
Docket No.	:	71608-7080

Honorable Commissioner of Patents
Washington, DC 20231

PRELIMINARY AMENDMENT

Sir:

Responsive to a Notice to file Missing Parts dated August 27, 2001, please amend the above-identified application as follows:

In the Specification:

Please amend the specification from page 9, line 1 to page 12, line 13 with the following rewritten paragraph:

--BRIEF DESCRIPTION OF THE DRAWINGS

The above and other aspects, features and advantages of the present invention will be more apparent from the following more particular description thereof, presented in conjunction with the following drawings wherein:

FIG. 1 shows two devices connected through a network.

FIG. 2 shows a general block diagram of one embodiment of the present invention interacting with a generic web server.

FIG. 3 shows a block diagram of one embodiment of the present invention showing delivery of an electronic document.

FIG. 4 shows a block diagram of one embodiment of the present invention showing handling of a exchange request.

FIG. 5 shows a block diagram of one embodiment of the present invention showing the backend databases.

FIG. 6 shows a block diagram of the component assembly engine 210 (CAE).

FIG. 7 shows an exemplary webpage.

FIG. 8 shows the component makeup of the exemplary webpage of FIG. 7.

FIG. 9 shows the hierarchical tree visualization of the component makeup of FIG. 8.

FIG. 10 shows an order in which the components of FIG. 9 are loaded and processed.

FIG. 11 shows shadow component resolution contrasting the techniques of replacement and supplementation.

FIG. 12 shows a block diagram of the effects of shadow component resolution.

FIG. 13 shows a flowchart of an exemplary method of processing a shadow component.

FIG. 14 shows internal data modification of a shadow component during processing.

FIG. 15 shows a method of multithreaded loading and processing of the components of FIG. 9.

FIG. 16 shows the main routine of an exemplary method for component loading and processing using recursion.

FIG. 17 shows routine ProcessActivatedNode of an exemplary method for component loading and processing using recursion.

FIG. 18 shows part 1/3 of routine RenderComponent of an exemplary method for component loading and processing using recursion.

FIG. 19 shows part 2/3 of routine RenderComponent of an exemplary method for component loading and processing using recursion.

FIG. 20 shows part 3/3 of routine RenderComponent of an exemplary method for component loading and processing using recursion.

FIG. 21 shows an example of a processed queue.

FIG. 22 shows an example of a feedback buffer.

FIG. 23 shows an exemplary component and the sections it can have.

FIG. 24 shows an example of a name element.

FIG. 25 shows an example of a family element.

FIG. 26 shows an example of a struct element.

FIG. 27 shows an example of a properties element.

FIG. 28 shows an example of a data element.

FIG. 29 shows an example of a interface element.

FIG. 30 shows an example of a process code element.

FIG. 31 shows an example of a activation code element.

FIG. 32 shows an example of a rules element.

FIG. 33 shows an example of a variables element.

FIG. 34 shows an example of a distributed component tree.

FIG. 35 shows an example of loading and processing orders of distributed components.

FIG. 36 shows an example of component sections internally and externally referencing other sections.

FIGS. 37-40 show 4 stages of surfing a website during browsing.

FIG. 41 shows the contents of a user shopping cart.

FIG. 42 shows an example of the form of the contents of the clickstream database without properties.

FIG. 43 shows an example of the form of the contents of the clickstream database with properties.

FIG. 44 shows an exemplary webpage requesting user feedback.

FIG. 45 shows an example of the contents of the clickstream database after a user interacts with a webpage requesting user feedback.

FIG. 46 shows an exemplary implementation of a personalization profile represented by a personal semantic network

FIG. 47 shows an exemplary webpage without customization.

FIG. 48 shows an exemplary webpage customized through personalization.

FIG. 49 shows the semantic network of FIG. 40 after several site visitations.

FIG. 50 shows a way of sharing personalization information between servers by daemon server.

FIG. 51 shows a centralized way of sharing personalized information between servers.

FIG. 52 shows an exemplary webpage.

FIG. 53 shows the webpage of FIG. 46 after reordering of elements.

FIG. 54 shows the webpage of FIG. 46 after selective filtering of elements.

FIG. 55 shows the webpage of FIG. 46 after element removal.

FIG. 56 shows a block diagram of one embodiment of the present invention showing the interaction of the daemon server.

FIG. 57 shows the webpage of FIG. 33 after extra-session customization resulting from the use of the daemon server.

FIG. 58 shows a block diagram of the actions of the Artificial Intelligence Engine.

FIG. 59 shows an example of the actions of dynamic caching.

FIGS. 60A-60B show a listing of an exemplary component named ComponentSprint.

FIG. 61 shows a listing of an exemplary component named ComponentRU.

FIG. 62 shows a listing of an exemplary component named ComponentPR.

FIG. 63 shows a listing of an exemplary component named ComponentGIF.

FIGS. 64A-64B show a listing of an exemplary component named ComponentFileListXML.--

Please replace the paragraph beginning at page 15, line 18 and ending on page 16, line 2, with the following rewritten paragraph:

--FIGS. 60A-64B show listings of exemplary components ComponentSprint, ComponentRU, ComponentPR, ComponentGIF, and ComponentFileListXML, respectively.--

REMARKS

Transmitted herewith are formal drawings. Substitute drawings 60A-60B and 64A-64B have been submitted for Figs. 60 and 64, respectively, as necessitated by conformance with USPTO rules regarding text font size. The amendments to the specification were made to bring the specification in concordance with the new drawings numbers and are cosmetic in nature. No new matter is added.

Attached hereto is a marked-up version of the changes made to the specification and claims by current amendment. The attached page is captioned **"Version with markings to show changes made."**

Respectfully submitted,

January 28, 2002
Date

Jonathan H. Backenstose
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

The specification beginning at page 9, line 1 and ending with page 12, line 13, has been amended as follows:

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FIG. 47 shows an exemplary webpage without customization.

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FIG. 49 shows the semantic network of FIG. 40 after several site visitations.

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FIG. 51 shows a centralized way of sharing personalized information between servers.

FIG. 52 shows an exemplary webpage.

FIG. 53 shows the webpage of FIG. 46 after reordering of elements.

FIG. 54 shows the webpage of FIG. 46 after selective filtering of elements.

FIG. 55 shows the webpage of FIG. 46 after element removal.

FIG. 56 shows a block diagram of one embodiment of the present invention showing the interaction of the daemon server.

FIG. 57 shows the webpage of FIG. 33 after extra-session customization resulting from the use of the daemon server.

FIG. 58 shows a block diagram of the actions of the Artificial Intelligence Engine.

FIG. 59 shows an example of the actions of dynamic caching.

FIGS. 60A-60B show[s] a listing of an exemplary component named ComponentSprint.

FIG. 61 shows a listing of an exemplary component named ComponentRU.

FIG. 62 shows a listing of an exemplary component named ComponentPR.

FIG. 63 shows a listing of an exemplary component named ComponentGIF.

FIGS. 64A-64B show[s] a listing of an exemplary component named ComponentFileListXML.

The paragraph beginning at page 114, line 8, has been amended as follows:

FIGS. 60A-64B show listings of exemplary components ComponentSprint, ComponentRU, ComponentPR, ComponentGIF, and ComponentFileListXML, respectively.

```
<?xml version="1.0"?>

<componentDefinition>
      <identification>
            <name value="componentSprint"/>
            <type value="normal"/>
      </identification>
      <relatives>
            <relative value="componentSprint"/>
      </relatives>
      <struct>
            <reference value="this"/>
      </struct>
      <properties>
      </properties>
      <data type="none">
            <![CDATA[]]>
      </data>
      <interface type="text/html">
            <![CDATA[]]>
      </interface>
      <code language="WebL">
            <![CDATA[
            import Java;
            // @CCID
            // Define Java API interface
            // Specify the particular Method that contains the routines for
the API calls
            var jClass = Java_New("Future4");
            var API = jClass.getOCPDS(ccID);
            // Begin
            var carrierName    = "Sprint PCS";
            var baseURL        =
"http://www.messaging.sprintpcs.com/sms/check_message_syntax.html?callbacknum=
7777777777";
            var messageHeader = "&message=";
            var defaultMessage       = "This+is+a+sample+message";
            var message        = API.gOQV("message");
            var mobileHeader   = "&mobilenum=";
            var defaultMobileNum     = "7038631132";
            var mobileNum            = API.gOQV("mobileNumber");
            if message == "" or message == nil then
                  message = defaultMessage;
            end;
            if mobileNum == "" or mobileNum == nil then
                  mobileNum = defaultMobileNum;
            end;
            var P = GetURL(baseURL + messageHeader + message + mobileHeader +
mobileNum);
            var myOutput = carrierName + " message sent.";
            API.sCI(cID, "text/html", myOutput);
            ]]>
      </code>
      <activationCode language="JavaScript">
            <![CDATA[]]>
      </activationCode>
</componentDefinition>
```

Fig. 60A

~~exemplary component definition - ComponentSprint~~

~~Figure 60~~

Fig. 60B

```
<?xml version="1.0"?>

<componentDefinition>
        <identification>
                <name value="componentFileListXML"/>
                <type value="normal"/>
        </identification>
        <relatives>
        </relatives>
        <struct>
                <reference value="this"/>
        </struct>
        <properties>
        </properties>
        <data type="none">
                <![CDATA[]]>
        </data>
        <interface type="text/xsl">
                <![CDATA[
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
        <xsl:output method="html"/>
    <xsl:template match="/">
        <table>
        <xsl:for-each select="/filelist/file">
            <xsl:sort select="fullfilename"/>
            <!--sorted within grouping-->
            <!--member distinctions-->
            <tr>    <td>
                    <font color="#000000" size="1" face="Arial, Helvetica">
                    <xsl:element name="a">
                        <xsl:attribute name="href">
                        <xsl:text>/servlet/Future4?cid=</xsl:text>
                            <xsl:value-of select="filename"/>
                        </xsl:attribute>
                        <xsl:value-of select="filename"/>
                    </xsl:element>
                    </font>
                    <br/>
            </td>   </tr>
        </xsl:for-each>
        </table>
    </xsl:template>
</xsl:stylesheet>
        ]]>
    </interface>
    <code language="JavaScript">
        <![CDATA[
        // @API
        var xmlString = API.getFileListingXML("", "xml");
        API.setComponentData(cID, "text/xml", xmlString);
        ]]>
    </code>
    <activationCode language="JavaScript">
        <![CDATA[]]>
    </activationCode>
</componentDefinition>
```

Fig. 64A

~~exemplary component definition - ComponentFileListXML~~

~~Figure 64~~

Fig. 64B

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Att. Docket No.	:	71608-7080

Honorable Commissioner of Patents
Washington, DC 20231
Attn: Drawing Review Branch

SUBMISSION OF FORMAL DRAWINGS

Sir:

Enclosed are fifteen (60) sheets of formal drawings numbered 1-59, 60A, 60B, 61-63, 64A, and 64B for filing in the above-identified application.

Respectfully submitted,

January 28, 2002
Date

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